## IN THE CLAIMS:

Please amend claim 1, cancel claims 13-15, and add new claims 27-29 as follows.

1. (Currently Amended) A method for processing a transport stream comprising a plurality of time slots for transporting therein respective programs having a common time base indicated by periodically inserted time stamps, said method comprising:

modifying packets associated with a desired time slot of a received transport stream to produce an output transport stream; and

transmitting said output transport stream;

said transmitted output transport stream <u>includes including</u> respective modified programs having said common time base indicated by said periodically inserted time stamps provided by said received transport stream, wherein a modified packet uses a matching time stamp of said received transport stream.

- 2. (Previously Presented) The method of claim 1, wherein said modifying comprises replacing said packets associated with said desired time slot.
- (Previously Presented) The method of claim 2, wherein initial and replacement packets associated with said desired time slot represent respective first and second programs.
- Cancelled
- 5. (Previously Presented) The method of claim 3, wherein one of said first and second programs comprises a NULL program.
- 6. (Previously Presented) The method of claim 3, wherein the step of modifying packets further comprises:
- (1) examining a packet received from said received transport stream to determine if a slot associated with said received packet corresponds to an insertion slot for said second program to be inserted;

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- (2) inserting, into an output transport stream, a next packet of said second program if said slot associated with said received packet corresponds to an insertion slot for said second program to be inserted;
- (3) inserting, into said output transport stream, said received packet if said slot associated with said received packet does not correspond to an insertion slot for said second program to be inserted; and
- (4) repeating steps (1) through (3) for each packet of said received transport stream until a replacement stream has been fully inserted into said output transport stream.
- 7. (Previously Presented) An apparatus for processing a received transport stream comprising N time slots for transporting therein N respective programs having a common time base indicated by periodically inserted time stamps, where N is an integer greater than one said apparatus comprising:
  - a transport clock source;
- a frequency divider for dividing a timing signal from said transport clock source into N timing signals;

N transport encoders coupled to said frequency divider for respectively receiving and encoding said N programs; and

a multiplexer, coupled to an output of said N transport encoders, for receiving and modifying packets associated with a desired time slot of one or more transport encoded program streams, said multiplexer producing a processed transport stream, said processed transport stream including respective modified programs having said common time base indicated by said periodically inserted time stamps provided by said received transport stream, wherein a modified packet uses a matching time stamp of said received transport stream.

8. (Previously Presented) The apparatus of claim 7, wherein the each program is encoded at a clock rate of CLK/N.

- 9. (Previously Presented) The apparatus of claim 7, further comprising a file server coupled between said multiplexer and said N transport encoders for storing the transport encoded program streams.
- 10. (Previously Presented) The apparatus of claim 7, wherein said modifying comprises replacing said packets associated with said desired time slot.
- 11. Cancelled
- 12. (Previously Presented) Apparatus for processing a received transport stream comprising a plurality of time slots for transporting therein a respective plurality of programs having a common time base indicated by periodically inserted time stamps, said apparatus comprising:
  - a transport clock source;
- a frequency divider, for dividing a transport clock timing signal from said transport clock source into a plurality of timing signals; and
- a plurality of encoders, each of said encoders coupled to said frequency divider for respectively receiving and encoding said plurality of programs to produce a respective encoded program stream, each of said encoded program streams being coupled to a switch via a respective buffer memory;

said switch selectively coupling program stream transport packets from said buffer memories for modifying packets associated with a desired time slot to produce a slotted transport stream, said slotted transport stream including respective modified programs having said common time base indicated by said periodically inserted time stamps provided by said received transport stream, wherein a modified packet uses a matching time stamp of said received transport stream.

- 13. Cancelled
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## 15. Cancelled

- 16. (Previously Presented) The apparatus of claim 12, further comprising:
- a file server, for storing an encoded program stream and selectively providing said encoded program stream to said switch in response to a subscriber request for said encoded program stream; said switch inserting said at least one encoded program stream received from said file
- said switch inserting said at least one encoded program stream received from said file server into a corresponding time slot.
- 17. (Previously Presented) The apparatus of claim 16, wherein an identification of the time slot includes said requested program stream provided to said requesting subscriber.
- 18. (Previously Presented) The apparatus of claim 12, wherein a bitrate of an encoded transport stream is adapted by adding NULL packets to the slotted transport stream.
- 19. (Previously Presented) The apparatus of claim 18, wherein a number of NULL packets to add is determined according to at least one of an insertion rate, a slot repetition period and a packet count.
- 20. (Previously Presented) The apparatus of claim 12, wherein a bitrate of an encoded transport stream is adapted by deleting program packets from the transport encoded transport stream.
- 21. (Previously Presented) The method of claim 1, further comprising: storing, in a file server, at least one transport encoded program; and in response to a subscriber request for a transport encoded program, including said requested transport encoded program within a respective time slot of said output transport stream being formed.

- 22. (Previously Presented) The method of claim 21, further comprising: identifying, for said requesting subscriber, the time slot including said requested transport encoded program.
- 23. (Previously Presented) The method of claim 1, wherein a bitrate of said output transport stream is adjusted by deleting program packets and inserting NULL transport packets within said processed output transport stream.
- 24. (Previously Presented) The method of claim 23, wherein a number of NULL packets to insert is determined according to at least one of an insertion rate, a slot repetition period and a packet count.
- 25. (Previously Presented) The method of claim 23, wherein a number of program packets to delete is determined according to at least one of an deletion rate, a slot repetition period and a packet count.
- 26. (Previously Presented) The apparatus of claim 10, wherein initial and replacement packets associated with said desired time slot represent respective first and second programs.
- 27. (New) Apparatus for generating a transport stream comprising a plurality of programs, each of said programs having associated with it a respective time slot, said apparatus comprising:
- a frequency divider, for dividing a transport clock timing signal into a plurality of timing signals; and
- a plurality of encoders, each of said encoders encoding a program stream in response to a respective timing signal to produce a respective encoded program stream, each of said encoded program streams being coupled to a switch via a respective buffer memory:

said switch selectively coupling program stream transport packets from said buffer memories to produce a slotted transport stream, wherein each transport packet of

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each program stream is separated by a transport packet from at least one other program stream; and

said switch selectively coupling program stream transport packets from said buffer memories for modifying packets associated with a desired time slot to produce a slotted transport stream, said slotted transport stream including respective modified programs having said common time base indicated by said periodically inserted time stamps provided by said received transport stream, wherein a modified packet uses a matching time stamp of said received transport stream.

- 28. (New) The apparatus of claim 27, wherein said corresponding time slot comprises an unused time slot.
- 29. (New) The apparatus of claim 28, wherein said unused time slot included NULL transport packets.